

IN THE CLAIMS

Claims 1 - 36 (Cancelled).

Add the following new claims:

37. (New) An optical element consisting of a set of a plurality of three-dimensional cells, wherein:

a specific amplitude and a specific phase are defined in each individual cell;

said individual cell has a specific optical property so that, when incident light is provided to the cell, emission light is obtained by changing an amplitude and a phase of the incident light in accordance with the specific amplitude and the specific phase defined in the cell; and

said individual cell has an amplitude-modulating part having transmittance corresponding to the specific amplitude.

38. (New) The optical element as set forth in claim 37, wherein each cell has a phase-modulating part having a refractive index corresponding to a specific phase.

39. (New) The optical element as set forth in claim 37, wherein each cell has a phase-modulating part having an optical path length corresponding to a specific phase.

40. (New) An optical element consisting of a set of a plurality of three-dimensional cells, wherein:

a specific amplitude and a specific phase are defined in each individual cell;

said individual cell has a specific, optical property so that, when incident light is provided to the cell, emission light is obtained by changing an amplitude and a phase of the incident light in accordance with the specific amplitude and the specific phase defined in the cell; and

said individual cell has an amplitude-modulating part having reflectivity corresponding to the specific amplitude.

41. (New) The optical element as set forth in claim 40, wherein each cell has a phase-modulating part having a refractive index corresponding to a specific phase.

42. (New) The optical element as set forth in claim 40, wherein each cell has a phase-modulating part having an optical path length corresponding to a specific phase.

43. (New) An optical element consisting of a set of a plurality of three-dimensional cells, wherein:

a specific amplitude and a specific phase are defined in each individual cell;

said individual cell has a specific optical property so that, when incident light is provided to the cell, emission light is obtained by changing an amplitude and a phase of the incident light in accordance with the specific amplitude and the specific phase defined in the cell; and

said individual cell has an amplitude-modulating part having an effective

area corresponding to the specific amplitude.

44. (New) The optical element as set forth in claim 43, wherein each cell has a phase-modulating part having a refractive index corresponding to a specific phase.

45. (New) The optical element as set forth in claim 43, wherein each cell has a phase-modulating part having an optical path length corresponding to a specific phase.